## Page 12:

Please replace the fourth full paragraph as follows:

## **DETAILED DESCRIPTION OF THE INVENTION**



Figure 1a depicts a wafer production system 1. It has a modular design comprising process chambers 10, a lock chamber 11 and a transfer chamber 13. Such wafer production systems are called cluster systems.

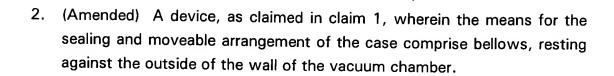
## **IN THE CLAIMS:**

Please substitute the following claims for the pending claim of the same number.

- (Amended) A device to carry out measurements in a vacuum chamber, in particular to measure thin layers, with a case, exhibiting at least one measurement window, to receive a measurement system, comprising:
  - a two part case with a first part of the case, which projects into the vacuum chamber, and a second part of the case, which is located outside the vacuum chamber,
  - means for the sealing and moveable arrangement of the case in the wall of the vacuum chamber,
  - an adjusting unit, engaging with the case, and
  - a counterpull device, engaging with the second part of the case.



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- 3. (Amended) A device, as claimed in claim 1, wherein the counterpull device is a negative pressure chamber, adjacent to the second part of the case.
- 4. (Amended) A device, as claimed in claim 3, wherein the negative pressure chamber is connected from the viewpoint of pressure to the vacuum chamber.

5. (Amended) A device, as claimed in claim 3, wherein the performance of the adjusting unit is designed according to the weight of the case and the measurement system.

- 6. (Amended) A device, as claimed in claim 1, wherein the measurement system is disposed in the second part of the case, which is separated from the viewpoint of pressure from the first part of the case.
- 7. (Amended) A device, as claimed in claim 1, wherein the first part of the case is a vacuum adapter.
- 8. (Amended) A device, as claimed in claim 1, wherein the measurement system comprises at least one light source or light feed and at least one detector.
- 9. (Amended) A device, as claimed in claim 8, wherein the first part of the case is designed as a vacuum adapter and exhibits a common beam tube for at least one incoming and at least one outgoing beam.
- 10. (Amended) A device, as claimed in claim 9, wherein the measurement window comprises a prism and / or a lens system.

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- 11. (Amended) A device, as claimed in claim 9, wherein the vacuum adapter terminates with at least one vacuum window on the end of the beam tube facing the measurement system.
- 12. (Amended) A device, as claimed in claim 11, wherein a polarizer is attached on the beam tube interior or beam tube exterior of the prism system of the vacuum adapter.
- 13. (Amended) A device, as claimed in claim 9, wherein in the beam tube of the vacuum adapter deflecting prisms or mirrors are disposed inside the vacuum adapter.
- 14. (Amended) A device, as claimed in claim 1, wherein the measurement system exhibits a measuring unit and an adjusting unit comprising at least one light source and at least one position sensitive detector.
- 15. (Amended) A device, as claimed in claim 14, wherein the adjusting unit exhibits an adjusting laser, a beam splitter and two position sensitive detectors.
- 16. (Amended) A device, as claimed in claim 1, wherein it exhibits a rotating table as the sample table.
- 17. (Amended) A device, as claimed in claim 16, wherein the rotating table is arranged on a linear table, whose direction of motion runs radially to the rotating table.
- 18. (Amended) A device, as claimed in claim 16, wherein the deflecting prisms or mirrors are spaced in such a manner relative to the rotating table that they can be moved linearly in the radial direction of the rotating table.
- 19. (Amended) A vacuum adapter for devices to carry out optical measurements in a vacuum chamber, comprising: a common beam tube for at least one incoming and one outgoing beam, which terminates on